DATA CENTER OPERATIONS BRANCH

NDS OPERATIONS PROCEDURE MANUAL NO. P-L010

APPLICATIONS SOFTWARE 13 April 1983

LNSQR11

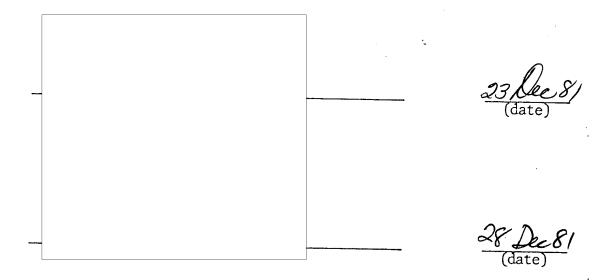
SYMBOLIC TITLE: LNSQ11
PROGRAMMER:

25X1

Progra	am LNSQ11	
Date _	16 July 1981	

APPROVALS

This operations manual has been reviewed and approved by the following persons:



25X1

Program __LNSQ11 ______ Date __16 July 81

CONTENTS

	•	Page
SUMMARY	*	• 1
OPERATIONAL FLOW CHART	~ ·	. 2
COMPUTER RUN PREPARATION		3
PUNCHED CARD INPUT	-	3
HIGH-SPEED PRINTER OUTPUT		14
COMPUTER RUN PREPARATION SUMMARY		16
ON-LINE COMPUTER PROCESSING	•	17.
EQUIPMENT REQUIREMENTS		. 17.
NORMAL RUN INSTRUCTIONS	•	18
ABNORMAL RUN INSTRUCTIONS	•	20

Progra	n LNSQ11
Date	16 July 81

SUMMARY .

The LINSQ11 program generates a listing for the Mission Analysis Branch (MAB), RSD/PSG for use with a mission file. LINSQ11 retrieves data from the MPF file to perform calculations on the frame and strip records within each mission for a given day.

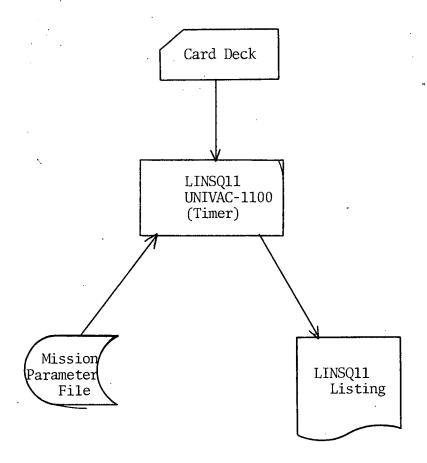
In addition to calling two FORTRAN programs (SUB-LINSQ11/LNSQ11 and AZMUTH/LNSQ11) to compute linear mileage and square nautical mileage on both type of records, LNSQ11 computes the actual footage, the GMT, and the GSD, when necessary. Totals are given for each pass, as well as for the entire mission day.

LINSQ11 can be initialized by loading the provided card deck via a card reader. If the request form from MAB asks that the run be made for a specific date (rather than for the current date), MAB must keypunch a data card (to replace the standard data card of '999999') with the date specified by MAB using the format given on page 7a. When the run is completed, the original data card (with '999999') is to be replaced in the card deck, removing the data card prepared by TSS. The card deck is to be maintained by DCOB.

Copies of the LNSQ11 Listing should be forwared to C/MAB/RSD/PSG.

Program <u>LNSO11</u> Date 16 July 81

OPERATIONAL FLOW CHART



Date 16 July 81

COMPUTER RUN PREPARATION

PUNCHED CARD INPUT

Type: Control Card

Identification: @RUN

Format: @RUN,C/R LNSQ11,S33741016/BOLTON,XM1,0240

N = numeral

A = letter

X = any legitimate character

in card code

S = special character

Z = optional character

& = plus

- = minus

Field	Column	Comments
1	1-8	SAAASASA
2	10-16	AAAAAS
3	17-26	ANNNNNNNS
4	27-33	AAAAAAS
5	34-37	ANNS
6	38-41	NNNN

TOP SECRET

Program LNSQ11

Date 16 July 81

COMPUTER RUN PREPARATION

PUNCHED CARD INPUT

Type: Control Card

Identification: @ASG

Format: @ASG,A NDS*PRODSCHEMA.

N = numeral
A = letter
X = any legitimate character
in card code

Z = optional character (letter of numeral)

ξ = plus

- = minus

S = special character

Field Column Comments

1 1-6 SAAASA
2 9-23 AAASAAAAAAAAA

IUP SEGRET

Program LNSQ11

Date 16 July 81

COMPUTER RUN PREPARATION

PUNCHED CARD INPUT

Type: Control Card

Identification: @SYM

Format: @SYM PRINT\$.,1,PR

N = numeral
A = letter
X = any legitimate characte

X = any legitimate character
 in card code

Z = optional character (letter of numeral)

ξ = plus
- = minus

S = special character

<u>Field</u>	Column	Comments
1	1-4	SAAA
2	6-13	AAAAASSS
3	14-15	NS
4	16-17	AA

Program LNSQ11

Date 16 July 81

COMPUTER RUN PREPARATION

PUNCHED CARD INPUT

Type: Control Card

Identification: @ASG

Format: @ASG, A XM1*P\$ABS.

N = numeral

A = letter

X = any legitimate character

in card code

Z = optional character (letter of

numeral)

ξ = plus

- = minus

S = special character

Field

Column

Program <u>LNSQ11</u> Date 16 July 81

COMPUTER RUN PREPARATION

PUNCHED CARD INPUT

Type: Control Card

Identification: @ERS

Format: @ERS TPF\$

N = numeral

A = letter

X = any legitimate character
 in card code

Z = optional character (letter of numeral)

 $\xi = plus$

- = minus

S = special character

Field

Column

Program LNSQ11

Date 16 July 81

COMPUTER RUN PREPARATION

PUNCHED CARD INPUT

Type: Control Card

Identification: @COPY,A

Format: @COPY,A XM1*P\$ABS.LNSQ11,TPF\$

N = numeral

A = letter

X =any legitimate character

in card code

Z = optional character (letter of

numeral)

ξ = plus

- = minus

S = special character

Field

Column

Progr	am <u>LNSQ11</u>	
Date	16 July 81	

COMPUTER RUN PREPARATION

PUNCHED CARD INPUT

Type: Control Card

Identification: @FREE

Format: @FREE XM1*P\$ABS.

N = numeral

A = letter

X = any legitimate character

in card code

Z = optional character (letter of

numeral)

& = plus
- = minus

S = special character

Field

Column

Program	LNSQ11
Date <u>16</u>	July 81

COMPUTER RUN PREPARATION

PUNCHED CARD INPUT

Type: Control Card

Identification: @XQT

Format: @XQT TPF\$.LNSQ11

N = numeral

A = letter

X = any legitimate character
 in card code

Z = optional character (letter of

numeral) ξ = plus

- = minus

S = special character

Field

Column

Progr	am .	LNSC	<u> 11 </u>	
Date	16	July	1981	

COMPUTER RUN PREPARATION

PUNCHED CARD INPUT

Type: Data Card

Identification:

Format: 999999

N = numeral

A = letter

X = any legitimate character
 in card code

Z = optional character (letter of

numeral)

 $\xi = plus$

- = minus

S = special character

Field Column

1

1-6

Comments

NNNNNN

Program <u>LNSQ11</u> Date 16 July 81

COMPUTER RUN PREPARATION

PUNCHED CARD INPUT

Type: Control Card

Identification: @FIN

Format: @FIN

N = numeralA = letter

X = any legitimate character

in card code

- = minus S = special character

numeral)

Z = optional character (letter of

Field Column

1

1-4

Comments

 $\xi = plus$

SAAA

Ċ				
Progra	am	LNSC)11	
_				_
Date	16	т 1	0.7	

PUNCHED CARD INPUT (Continued)

Source: Card deck maintained by DCOB-

Sequence:

Restrictions:

Peripheral Device: Card Reader and Printer

Quantity:

Disposition: Card deck maintained in DCOB

Program LNSQ11

Date 16 July 81

HIGH-SPEED PRINTER OUTPUT

Identification: LNSQ11

Format: (See sample on page 11)

Type of Form:

Disposition: Forward to C/MAB/RSD/PSG



COMPUTER RUN PREPARATION SUMMARY

	Assembly System: SPURT FD	SPRYE	ALGOL	FORTRAM IV	COBOL X	_ SIMSCRIPT	
	Hardware System: Univac 1100 (T	imer)		Run Sequence		of	
	Application:	Program Name _	LNSQ11	Programmer		Core: Min _	_{Ma} 25X1
	Drum:	· · · · · · · · · · · · · · · · · · ·	·	Estimated Run Time:			
		MAGNETIC	TAPE (File	Protect All Output Tape	s)		
		•				•	
	Logical Servo No.						· · ·
	or Symbolic Name Work					****	
c	Input/Output						
(-Standard lane					•	
0	Label (See OPB/TAS)	-]
Ċ				•			
[0	Disposition: Reten-						S.D
	Save, List, & tion			i			(J)
C	Release Period	· · · · · · · · · · · · · · · · · ·				· .	
C	-Next Phase [Prog. Name(s)]					•	
	[FTOg. Name(3)]				· · · · · · · · · · · · · · · · · · ·		
	D 4 Couls Dec Couts 11-1	(17-1)		PUT			•
	Data Cards - Prog. Controlled Parameters - Prog. Controlled	(Volume)					
	Parameters - Oper. Load as Er Paper Tape (Volume)	OUTT	On vv	Off Line			
	1004 Board Name (no.)	Carriage Tape	01 011 <u>XX</u>	Off Line Estimate	d Run Time:		,
				•		(Hours & 1	Tenths)
	Printer (Type Paper/No. of Copies)						
	Cards on Off Line:	Plotter	OnOff	Line:			
	(VOLUMC)	(141.00410)	of paper in	feet)			
	Other On Off Line:			To FREE STONE CONTROL			
	,		16		*** ***		
			16				

Progra	m LNSQ11	-
Date	16 July 81	_

ON-LINE COMPUTER PROCESSING

EQUIPMENT REQUIREMENTS

Computer: Univac 1100 (Timer)

Schema Used:

Storage:

Core Required -

I Bank

D Bank

Peripheral Devices: Card Reader; Printer

Restrictions:

Files Accessed:

Files Created/Deleted:

File Size:

Approximate Number of Accesses:

IOP SECRET

Program _	LNSQ11	
Date 16	July 81	

NORMAL RUN INSTRUCTIONS

Initiation: Load card deck in reader and run job. Use 999999 for date

unless otherwise specified.

Monitor:

Message

Cause

Operator Action

None

Program LNSQ11

Date 16 July 81

NORMAL RUN INSTRUCTIONS (Continued)

1:0RUN LNS011,S33741016/BOLTON,XM1
2:0ASG,A NDS+PRODSCHEMA.
3:0SYM PRINTS.,1,PR
4:0ASG,A XM1+P\$ABS.
5:0ERS TPF8.
6:0COPY,A XM1+P\$ABS.LNSQ11,TPF\$.
7:0FREE XM1+P\$ABS.
8:0XQT TPF\$.LNSQ11
9:811208
10:0FIN

Interrupt/Reentry: None

Termination: Standard

Take-down: Replace card deck in DCOB storage for future use.

II Keyins:

Disposition of Data: Forward output to C/MAB/RSD/PSG.

Program LNSQ11

Date 16 July 81

ABNORMAL RUN INSTRUCTIONS

Messages:

Message

EN-ERROR, ERROR STATUS IS ERROR-STATUS

ERROR ON ROLLBACK
As well as message above

Cause

DMS Problem

DMS Problem

Operator Action

Try again, if same error occurs, call CSD.

Same as above.

XMI*P\$SYM.AZMUTH/LNSQ11

Three different versions of AZMUTH, a LNSQ11 subroutine, are on the 1100/40 Operational System:

- 1) XES*S-YOPTION.AZMUTH/AZM
- 2) LIB*SYM.AZMUTH/AZM
- 3) C494*SYM.AZMUTH/AZM

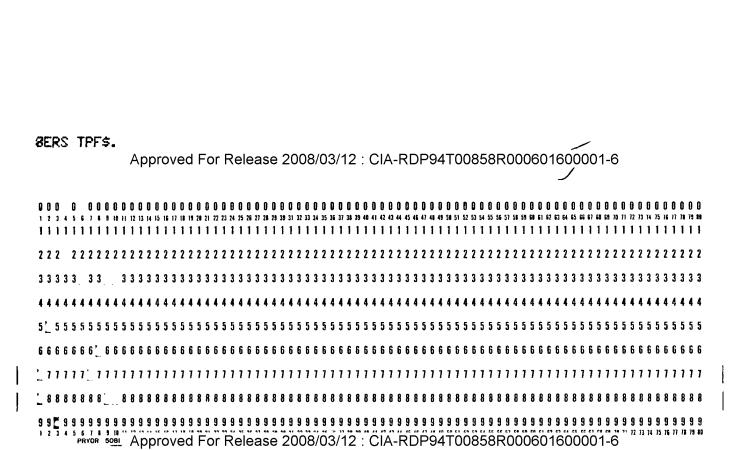
It is not known which version of AZMUTH was used to create the absolute for LNSQ11 on the 1100/40; therefore, all three versions were tested on the 1100/80 system. Of the three, LIB*SYM.AZMUTH/AZM was the only one that worked on the 1100/80 and is the version that was used to create the absolute for the 1100/80 converted version of LNSQ11.

Approved For Release 2008/03/12 : CIA-RDP94T00858R000601600001-6 OPERATIONS BRANCH WORK REQUEST TO: PRODUCTION ANALYSIS SECTION/OB/AID/PDG PAS NO. (Leave blank) COMPONENT CODE PROJECT NO. IN TYPE RUN 730000 □ PRODUCTION S42 REQUESTER PHONE NO. QUANTITY ☐ CHECKOUT 25X1 ASSEMBLE ☐ COMPILE **PRODUCT** □ OPEN SHOP PAS SECURITY CLASSIFICATION OUT □ ATTENDED □ KEYPUNCH CONTROL NUMBER ☐ OTHER_ PROGRAM LOAD TYPE FORM D & BS INPUT OUTPUT ☐ TELETYPE DEAD OUT **1471** BIND Y N TAPE(S) TAPE(S) LINE ☐ CARDS ☐ CONSOLE **1468** BURST YN ☐ CARDS ☐ CARDS ☐ PRINTER 116 TRIM R L □ NONE OTHER OTHER OTHER QUALITY CONTROL QUALITY CONTROL CUST BADGE NO. OUT DATA COMPUTER RM. SUPERVISOR PICKUP CONTROLLER OUT DATE DATE BADGE NO. BADGE NO. BADGE NO. BADGE NO. JOB DESCRIPITION OP Please run LNSQ11 with the following date card: YYMMDD 810105

R FM (8-73) 1125 (5-34) REPLACES IP FM 340

25X1

Approved For Release 2008/03/12 : CIA-RDP94T00858R000601600001-6

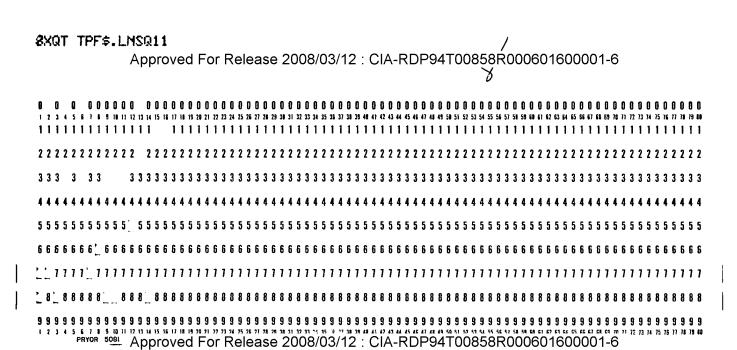


"COPY, A XM1*P\$ABS.LNSQ11, TPF\$. Approved For Release 2008/03/12 : CIA-RDP94T00858R000601600001-6 1 2 3 4 5 6 7 8 9 18 11 12 13 14 15 16 17 18 19 28 21 22 23 24 25 28 27 28 29 38 31 32 33 34 35 38 37 38 39 48 41 42 43 44 45 46 47 48 49 58 51 52 53 54 55 56 57 58 59 68 61 62 63 64 65 66 67 68 69 78 77 77 77 78 79 88 33

12 13 14 15 76 17 18 79 80

PRIVAL 5081 Approved For Release 2008/03/12 : CIA-RDP94T00858R000601600001-6

PRYOR 5081 Approved For Release 2008/03/12 : CIA-RDP94T00858R000601600001-6



PRYOR 5081 Approved For Release 2008/03/12 : CIA-RDP94T00858R000601600001-6